



Lloyd's
Register

Quality Scheme Certificate

This is to certify

VACON PLC
Runsorintie 7
FI-65380 Vaasa
Finland

has been assessed by Lloyd's Register EMEA for approval against the requirements set out in:

THE QUALITY ASSURANCE SCHEME FOR MACHINERY

The quality system and procedures at these works covering production methods, inspection and testing, quality control and general standards of workmanship have been examined and are approved for the manufacture of the undernoted product(s).

Such items will be eligible for fitting in ships or other installations classed or intended for classification subject to satisfactory installation under the usual conditions of survey and testing.

This approval is conditional upon the product(s) manufactured and certified under this Scheme being in accordance with the relevant requirements of the Rules and Regulations for the Classification of Ships and the organisation and procedures being audited by the Surveyors at agreed intervals.

This Certificate relates solely to:-

FREQUENCY CONVERTER DRIVES

For details of the scope of approval see Page 3

Approval No.	QAM103
Original Issue	27 September 2014
Date of Issue	27 September 2014
Date of Expiry	27 September 2017
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Timo Rinkinen
Senior Surveyor
Lloyd's Register EMEA

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Scope of certification includes following types of frequency converter drives according to the valid LR Type Approval Certificate 11/60005:

- NXS Air Cooled FR4 to FR12
- NXP Air Cooled FR4 to FR14, FI19-FI13
- NXP Liquid Cooled CH3, CH4, CH5, CH61, CH62, CH72, CH63, CH64, CH74
- NXP can also be replaced by NXA, NXI, NXF, NXB, NXN, depending on application.
- All drivers can be accompanied with external brake resistor, AC-chokes, SIN-, RFI-DUT-, L- or LCL-filters

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Supplementary Terms and Conditions

The Quality Scheme is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations for the Classification of Ships are complied with.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Certificate in accordance with the Quality Scheme Procedure.

<p>INTERMEDIATE SURVEY 1</p> <p>Date Completed</p> <p>Signature</p> <p>Surveyors Name (Print)</p>	<p>INTERMEDIATE SURVEY 4</p> <p>Date Completed</p> <p>Signature</p> <p>Surveyors Name (Print)</p>
<p>INTERMEDIATE SURVEY 2</p> <p>Date Completed</p> <p>Signature</p> <p>Surveyors Name (Print)</p>	<p>INTERMEDIATE SURVEY 5</p> <p>Date Completed</p> <p>Signature</p> <p>Surveyors Name (Print)</p>
<p>INTERMEDIATE SURVEY 3</p> <p>Date Completed</p> <p>Signature</p> <p>Surveyors Name (Print)</p>	<p>RENEWAL SURVEY 6</p> <p>Date Completed</p> <p>Signature</p> <p>Surveyors Name (Print)</p>


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